

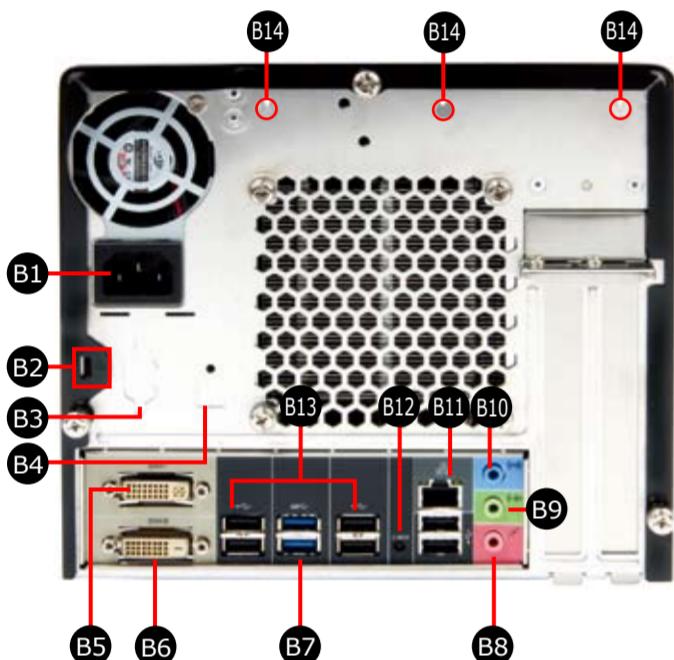
SH61R4 Quick Guide [English]

Front Panel



- F1. HDD LED
- F2. Power Button / Power LED
- F3. 5.25" Bay
- F4. USB2.0 Ports
- F5. Microphone
- F6. Headphone

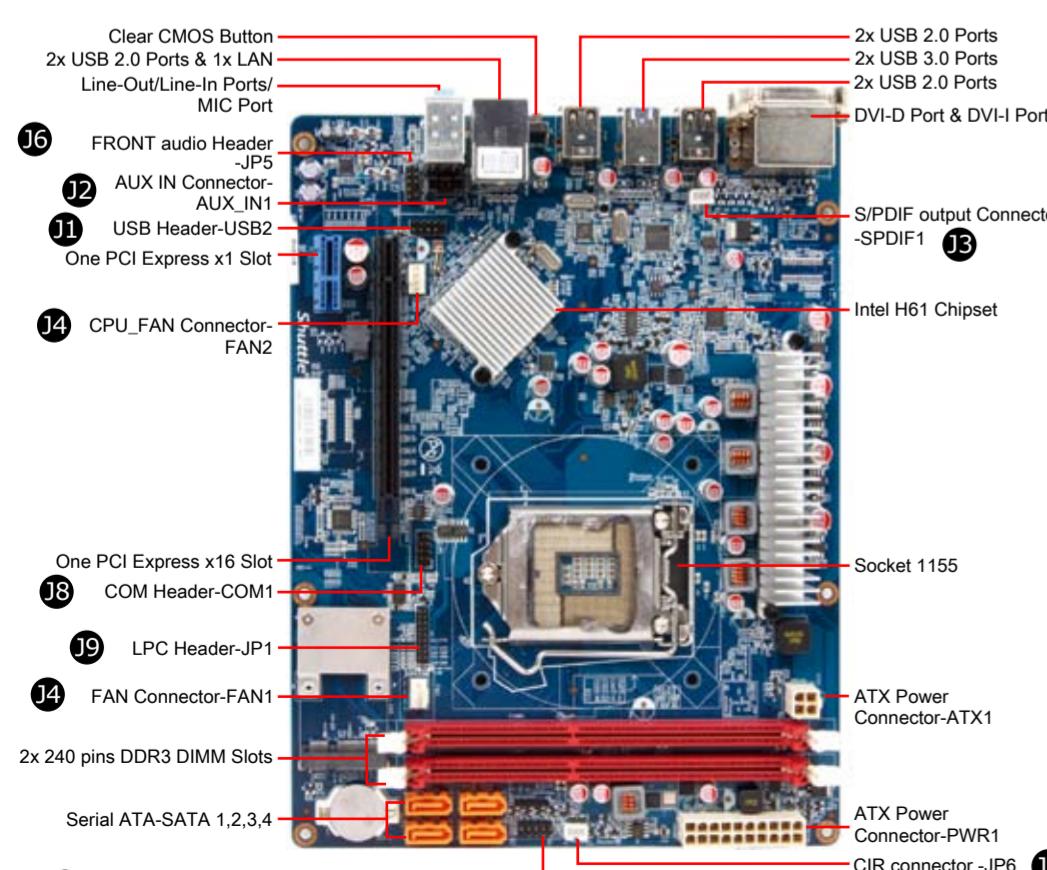
Back Panel



- B1. AC Power Socket
- B2. Kensington Lock
- B3. Serial Port Perforation (Optional)
- B4. SPDIF Out Port (Optional)
- B5. DVI-I Port
- B6. DVI-D Port
- B7. USB3.0 Ports
- B8. Microphone Jack
- B9. Line-Out Jack
- B10. Line-In Jack
- B11. LAN & USB2.0 Ports
- B12. Clear CMOS Button
- B13. USB2.0 Ports
- B14. Wireless LAN Perforation

DVI-I & DVI-D Ports cannot be used, if the PCI Express graphics card is installed.

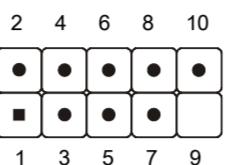
Motherboard Illustration



Pin Assignments

J1 USB Header - (USB2)

- 1=5V_USB
- 2=5V_USB
- 3=USB A-
- 4=USB B-
- 5=USB A+
- 6=USB B+
- 7=GND
- 8=GND
- 9=NULL
- 10=NA



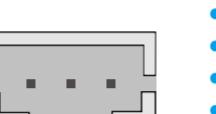
J2 AUX IN Connector - (AUX_IN1)

- 1=AUX_IN_L
- 2=Ground
- 3=Ground
- 4=AUX_IN_R

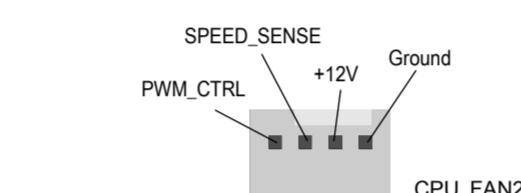
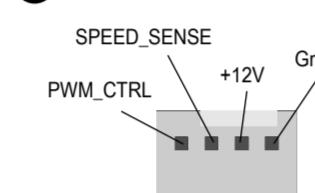


J3 S/PDIF Out connector - (SPDIF1)

- 1=Ground
- 2=VCC
- 3=SPDIF_O

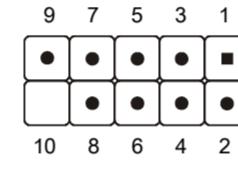


J4 Fan Connectors



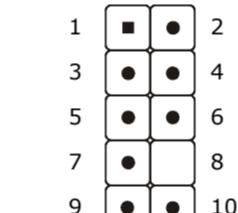
J5 Power Header - (JP3)

- 1=+HD_LED
- 2=PWR_LED
- 3=-HD_LED
- 4=GND
- 5=RST_SW
- 6=PWR_SW
- 7=GND
- 8=GND
- 9=NA
- 10=NULL



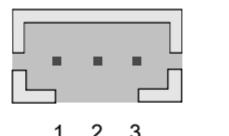
J6 Front audio Header - (JP5)

- 1=Front MIC_L
- 2=AGND
- 3=Front MIC_R
- 4=Front Audio detect
- 5=Head phone_R
- 6=Front MIC SENSE_Return
- 7=Front SENSE
- 8=NULL
- 9=Head phone_L
- 10=Head phone SENSE_Return



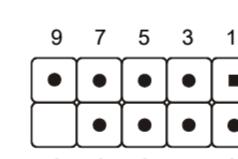
J7 CIR connector - (JP6)

- 1=Ground
- 2=5V_DUAL
- 3=CIR-RX



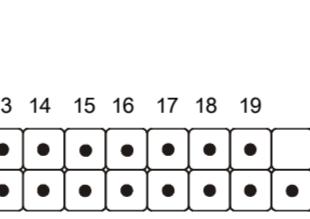
J8 COM Header - (COM1)

- 1=DCD1
- 2=RX1
- 3=TXD1
- 4=DTI1
- 5=Ground
- 6=DSR1
- 7=RTS1
- 8=CTS1
- 9=-XRI
- 10=NULL



J9 LPC Header - (JP1)

- 1=+12V
- 2=5V
- 3=5VSB
- 4=SERRQ
- 5=CLK-48M
- 6=CLK-33M
- 7=SIOIRST#
- 8=LFRAME
- 9=LAD3
- 10=LAD2
- 11=-12V
- 12=3VSB
- 13=RI
- 14=LDRQ
- 15=PME
- 16=LAD1
- 17=LAD0
- 18=+3.3V
- 19=GND



Safety Information

Read the following precautions before setting up a Shuttle XPC.

CAUTION

Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle. Disposal of used batteries according to the manufacturer's instructions.

Laser compliance statement

The optical disc drive in this PC is a laser product. The drive's classification label is located on the drive.

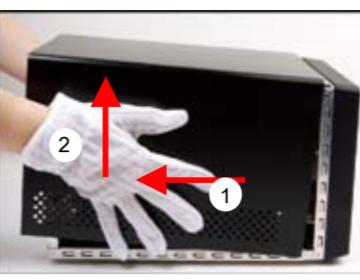
CLASS 1 LASER PRODUCT

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

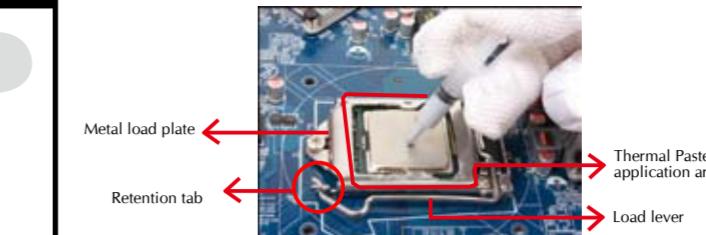
A. Begin Installation

For safety reasons, please ensure that the power cord is disconnected before opening the case.

1. Unscrew 3 thumbscrews of the chassis cover.
2. Slide the cover backwards and upwards.



3. Unfasten the rack mount screws and remove the rack.

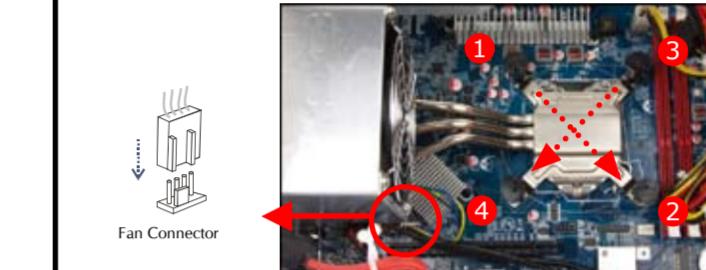


Please do not apply excess amount of thermal paste.

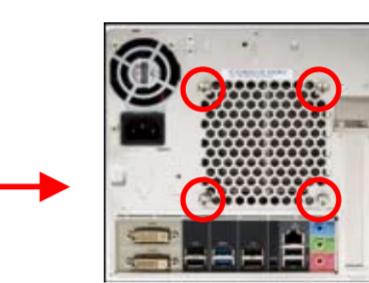
9. Tear off the protective membrane from the bottom of ICE module. Remove the protective socket mylar from the CPU socket.

10. Screw the ICE module to the mainboard. Note to press down on the opposite diagonal corner while tightening each screw.

11. Connect the fan connector.



12. Fasten the Smart Fan to the chassis with the 4 thumbscrews.



C. Memory module Installation

Installing a memory module

DDR3 DIMMs are not compatible with DDR/DD2 or DDR DIMMs. Be sure to install DDR3 DIMMs on this motherboard. Follow the steps below to correctly install your memory modules in the memory sockets.

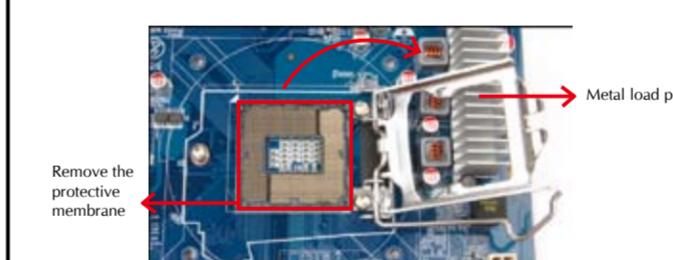
1. Unlock the DIMM latch.
2. Align the memory module's cutout with the DIMM slot notch. Slide the memory module into the DIMM slot.

A DDR3 memory module has a cutout, so it can only fit in one direction.

4. First unlock. Press **A** with your thumb, then move it to **B** until it is released from the retention tab and raise the socket lever.

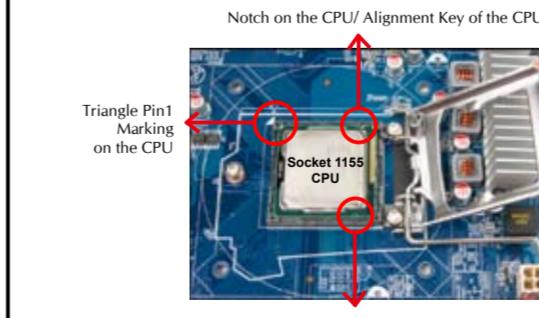


5. Lift the metal load plate on the CPU socket.



DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

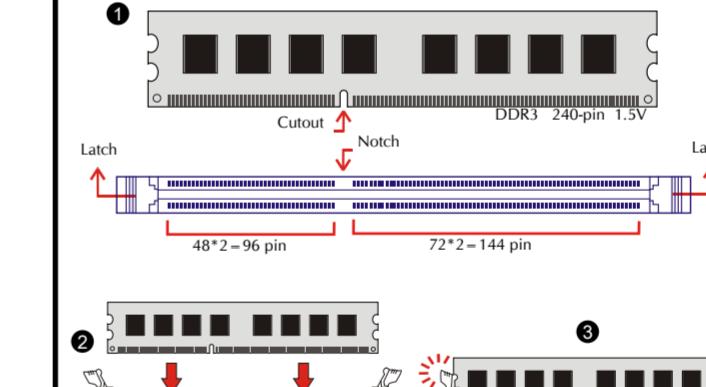
6. Orientate the CPU and socket, you may align the CPU notches with the socket alignment keys. Make sure the CPU is perfectly horizontal, insert the CPU into the socket.



Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins on the socket and damage of CPU!

7. Close the metal load plate, lower the CPU socket lever and lock in place.

8. Spread thermal paste evenly on the CPU surface.



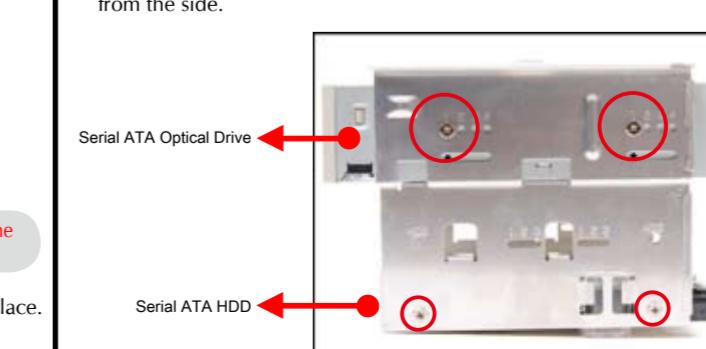
3. Check that the latches are closed, and the memory module is firmly installed.



Repeat the above steps to install additional memory modules, if required.

D. Peripheral Installation

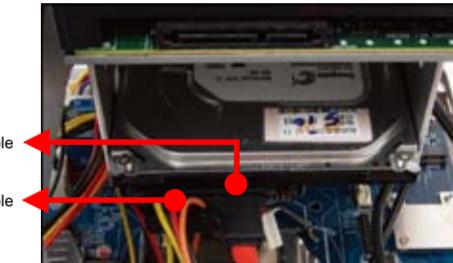
1. Loosen the pulse lock and separate the Serial ATA and power cables.
2. Place the HDD and optical drive in the rack and secure with screws from the side.



3. Place the rack in the chassis and refasten the rack.



4. Connect the Serial ATA and power cables to the HDD.



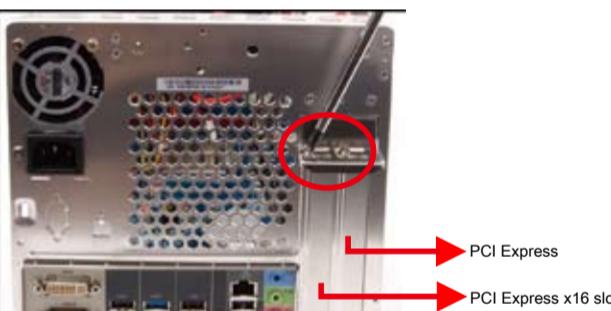
5. Connect the Serial ATA and power cables to the optical drive.



E. Accessories Installation

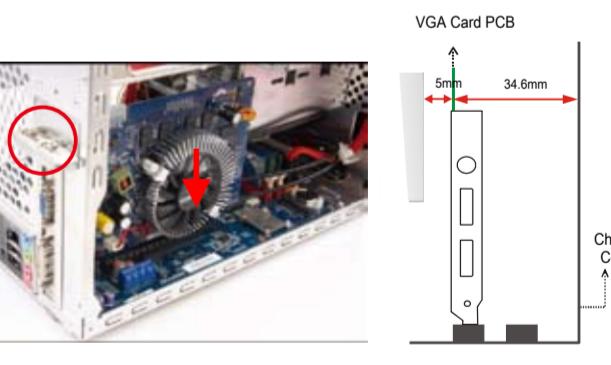
1. Unfasten expansion slot bracket screws. Remove the back panel bracket and put the bracket aside.

The maximum size acceptable for display cards is 267mm x 98mm x 34.6mm.



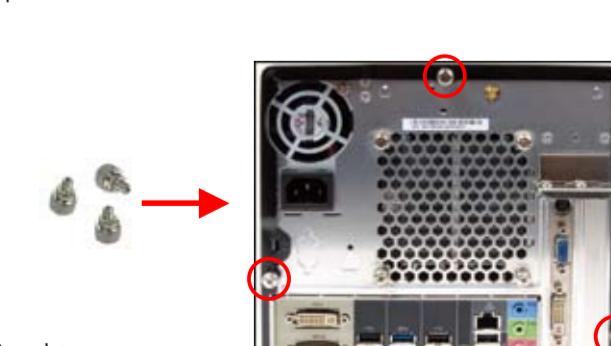
2. Install the PCI Express x16 card into the PCI Express x16 slots.

3. Secure the bracket.

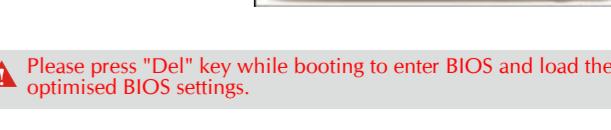


F. Complete

1. Replace the cover and refasten the thumbscrews.



2. Complete.



Please press "Del" key while booting to enter BIOS and load the optimised BIOS settings.